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PROGRESS REPORT 9

AUTOMATIC PHOTOINTERPRETATION FOR  
LAND USE MANAGEMENT IN MINNESOTA

ERTS

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Prepared by: L. Kirvida

Approved by:

G. D. Swanlund

Honeywell, Inc.  
Systems and Research Division  
2600 Ridgway Parkway  
Minneapolis, Minnesota 55413

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We have completed an automatic classification run of Ramsey County. This is a metropolitan, suburban type area which includes St. Paul, Minnesota. Four classes were used in the initial delineation, namely open, residential, water and urban. The results are given in the confusion matrix below.

Ground Truth \ K-Class Assignments				
	Water	Open	Residential	Urban
Water	58	0	0	0
Open	2	27	5	4
Residential	0	7	135	5
Urban	1	7	3	138

A thematic map was generated for Ramsey County using these four classes. We are planning to add texture features to evaluate its usefulness in separating metropolitan classes.

The confusion matrix was computed using density only from the four MSS bands of an October 6th coverage - 1075-16321.